

Figure 1

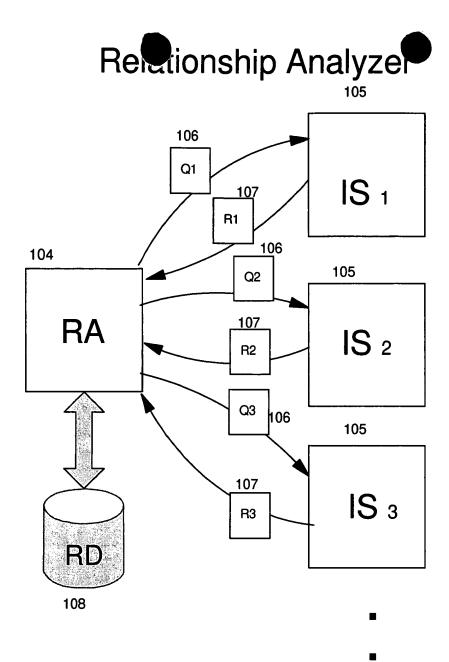


Figure 2

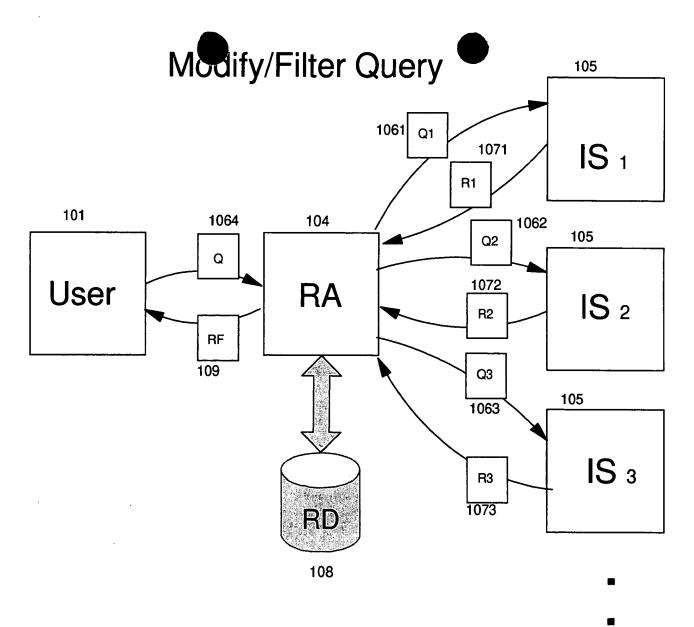


Figure 3

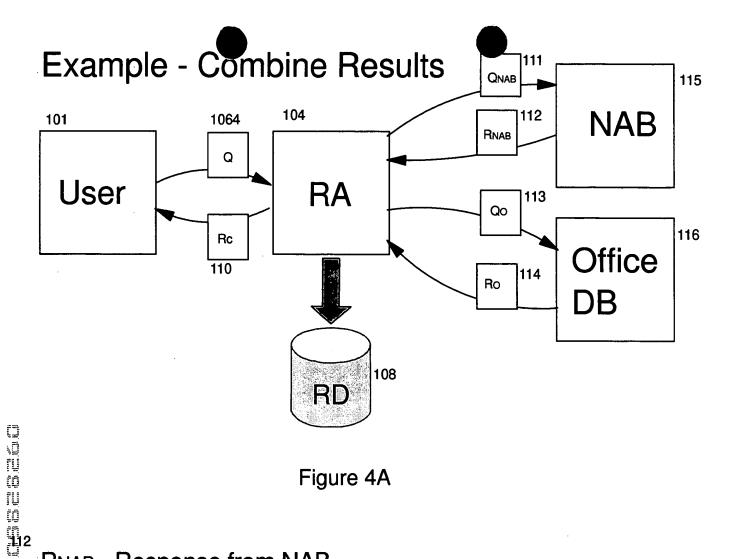


Figure 4A

RNAB - Response from NAB

THE RESIDENCE OF THE PERSON AND P

John Q Smith	John Q Smith/SalesDivision/XYZCorp
John Q Smith	John Q Smith/MktgDivision/XYZCorp

Ro - Response from Office DB

John Q Smith	Florida
John Q Smith	New York

110 Rc - Combined Response

John Q Smith	John Q Smith/SalesDivision/XYZCorp	Florida
John Q Smith	John Q Smith/MktgDivision/XYZCorp	New York

Figure 4B

Figure 5A

## Query - on behalf of George A Jones/MktgDivision/XYZCorp

e-mail name for John Smith?

1064

### Response

John Q Smith	John Q Smith/SalesDivision/XYZCorp	107
John P Smith	John P Smith/MktgDivision/XYZCorp	] '07

#### Relationship Data - for George A Jones/MktgDivision/XYZCorp

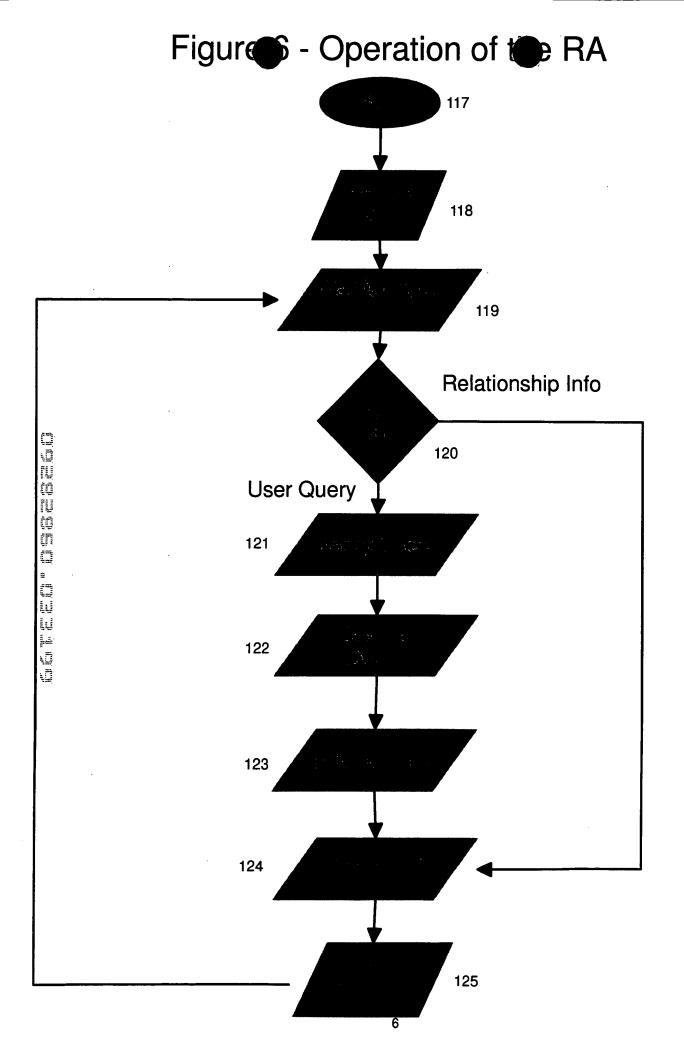
John Q Smith/SalesDivision/XYZCorp	10	1081
John P Smith/MktgDivision/XYZCorp	20	1082

#### Sorted Response

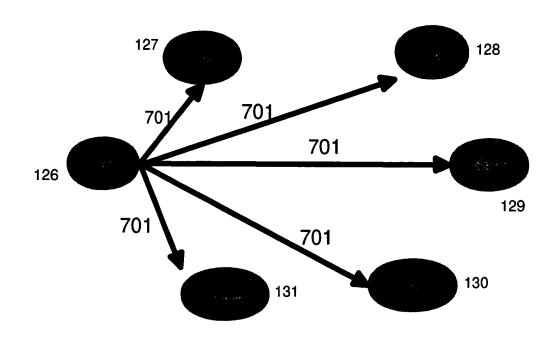
John P Smith	John P Smith/MktgDivision/XYZCorp	116
John Q Smith	John Q Smith/SalesDivision/XYZCorp	]

Figure 5B

1080



# Figure 7A - Sample Relationship Graph



Relationship Val	lues tor ".	<u> </u>			
	Fred	<u>Pat</u>	<u>Sam</u>	<u>Al</u>	<u>Mickey</u>
Ri("Org Chart")	8.0	0.5	0.5	0.1	0.0
Ri("Mailing List")	0.7	0.6	0.2	0.0	0.5
Ri("Calendar")	0.2	0.6	0.6	0.0	0.1
R("Jo") (sum Ri's)	1.7	1.7	1.3	0.1	0.6

#### Preference ratings for information sources (702):

{ P("Org Chart") = 0.2, P("Mailing List") = 0.5, P("Calendar") = 0.3 }

#### Weighted Relationship Values (703)

Rp("Jo",( Fred...)) 0.57 0.58 0.38 0.02 0.28

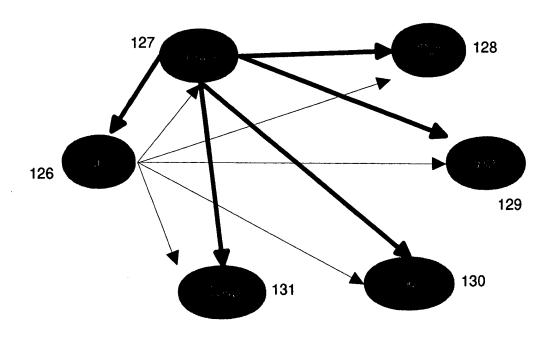
#### Relation-Group Cutoff (704)

RG cutoff = 0.35

#### Relation-Groups For "Jo" (705)

RG("Jo") = { Fred, Pat, Sam }

## Figure 7B - Sample Derived Relationship Graph



#### Weighted Relationship Values for Fred (706)

	<u>Pat</u>	<u>Sam</u>	<u>AL</u>	<u>Mickey</u>	<u>Jo</u>
Rp("Fred", y)	0.4	0.6	0.2	8.0	0.6

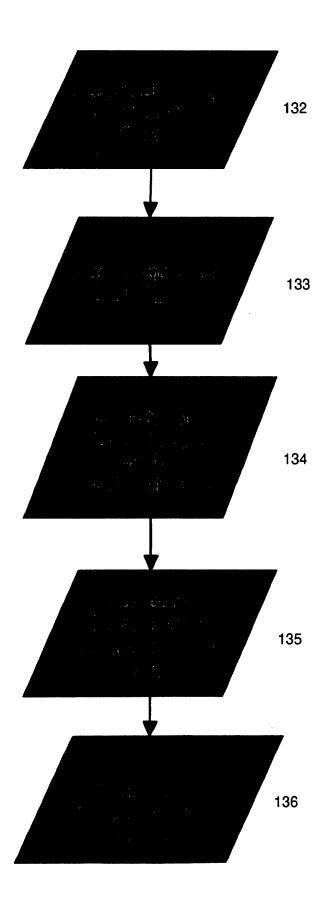
## Derived Relation-Group Cutoff (707)

DRG cutoff = 0.5

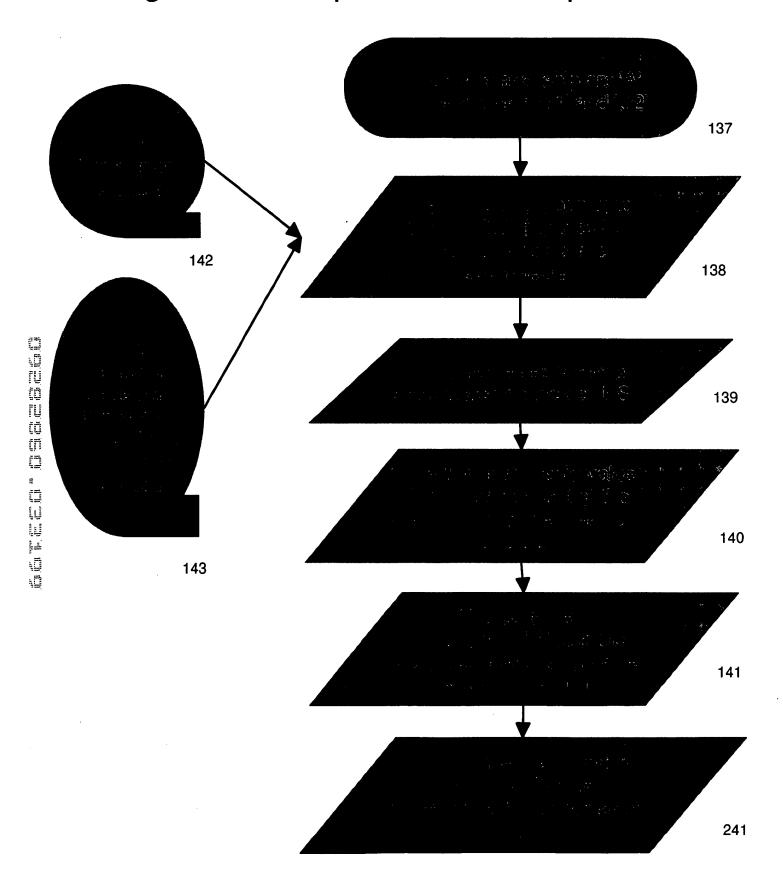
#### Derived Relation-Group For Jo (708)

DRG("Jo") = { Fred, Pat, Sam, Mickey }

# Figure 8 - Initialize RD



# Figure 9 - Compute Relationship Values



# Figure 10 - Modify Query

